

ESJC01(9kV, 12kV)

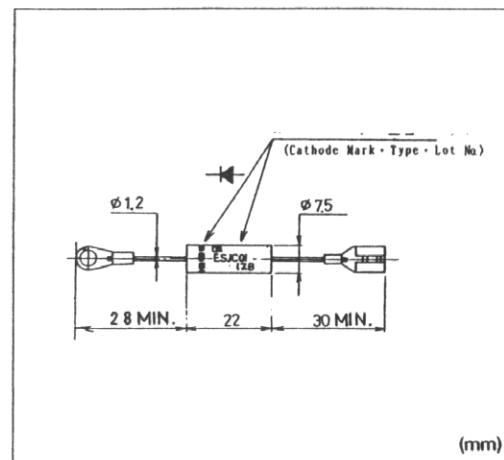
: Outline Drawings

HIGH VOLTAGE SILICON DIODE

ESJC01 is high reliability and high current capability type resin molded high voltage silicon diode which is sealed a multilayed mesa type silicon chip by epoxy resin.

■ : Features

- Small size
- High current capability
- High reliability
- Attached fasten terminal



(mm)

■ : Applications

Rectification for high voltage power supply of magnetron in micro wave oven range.

Rectification for high voltage power supply of X-ray generator.

Others.

: Cathode Mark

Type	Mark
ESJC01-09B	⚡
ESJC01-12B	

■ : Maximum Ratings and Characteristics

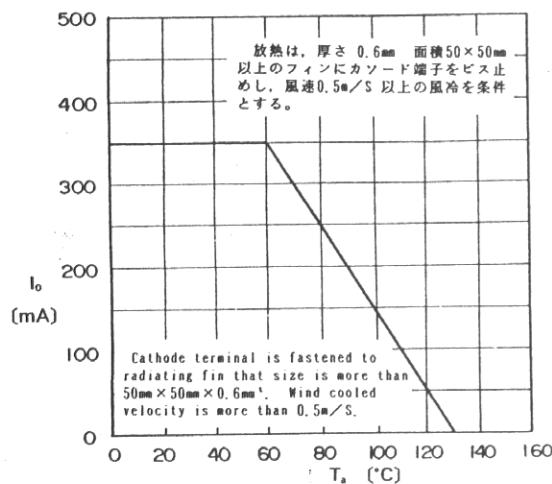
: Absolute Maximum Ratings

Items	Symbols	ESJC01		Units	Conditions
		-09B	-12B		
Repetitive Peak Reverse Voltage	V _{RRM}	9	12	kV	
Average Forward Current	I _{F(AV)}	350		mA	T _a =60°C, Resistive Load (RL)
Surge Current	I _{FSM}	30		Ap	60Hz, One shot surge of 60Hz half sine wave.
Reverse Surge Current	I _{RSR}	100		mAp	W _p =1msec. Ta=25°C One shot surge of W _p 1ms triangular wave
Allowable Junction Temperature	T _j	130		°C	
Storage Temperature	T _{stg}	-40~130		°C	

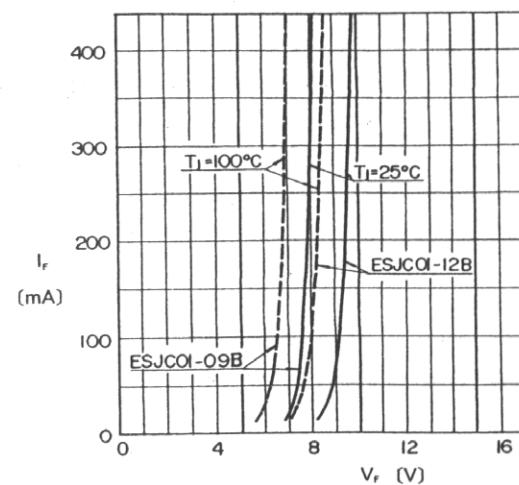
: Electrical Characteristics

Items	Symbols	ESJC01		Units	Conditions
		-09B	-12B		
Forward Voltage Drop	V _F	10	12	V	T _j =25°C, I _F =350mA
Reverse Current	I _R	5		μA	T _j =25°C, V _R =V _{RRM}
Avalanche Breakdown Voltage	V _{AV}	9.5~15	12.5~18	kV	T _j =25°C, I _R =100μA

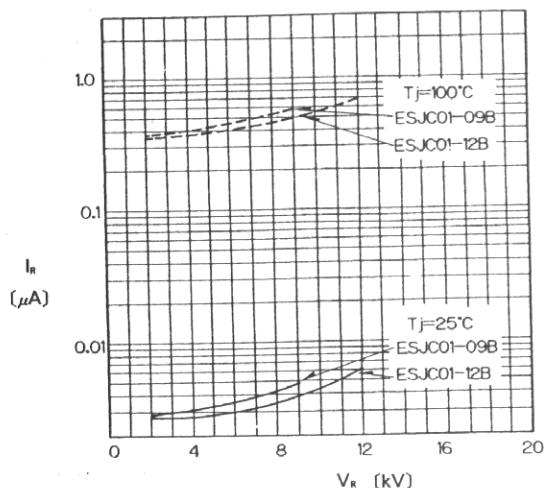
Characteristics



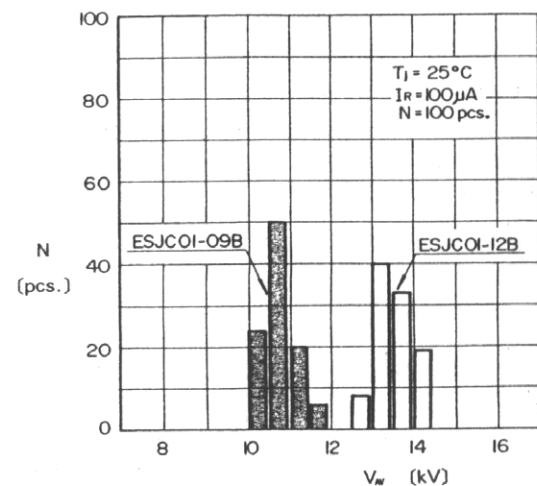
Current Derating Curve



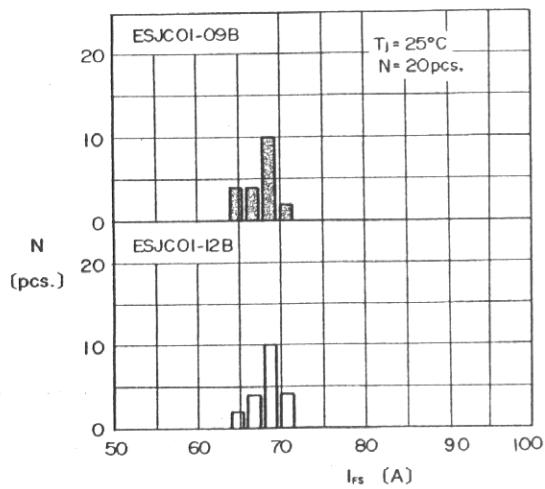
Forward Characteristics



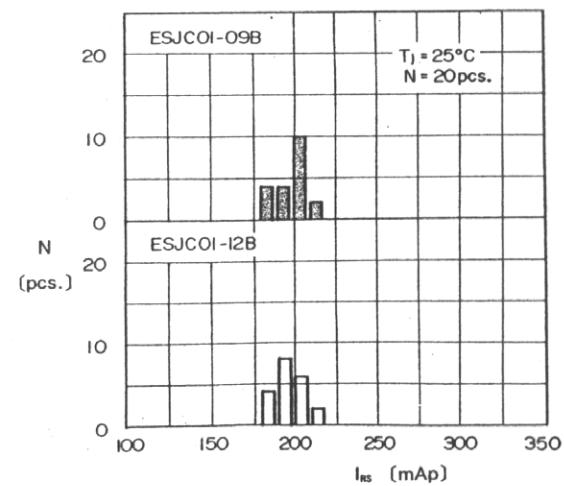
Reverse Characteristics



Avalanche Breakdown Voltage



Forward Surge Current



Reverse Surge Current